Company: PDelta Ingenieria Estructural S.A.S Engineer: Ing. Osvaldo Guzman A
Project: P046-2024 - PLAZA DOÑA CEIBA (CAMERINOS) 5:25:55 p. m. 26/06/2024
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MATERIALS

Number of materials = 1

REINFORCED CONCRETE

Mat	Name	f'c Kg/cm2	fy Kg/cm2	fys1 Kg/cm2	fys2 Kg/cm2	E Kg/cm2	G Kg/cm2	w Kg/m3
1	RConcrete1	210	4200	4200	4200	218540	87430	2400.0

f'c: Compressive strength of concrete
fy: Yield strength of longitudinal reinforcement
fys1: Yiel strength of shear reinforcement, bar sizes <= 3/8"
fys2: Yiel strength of shear reinforcement, bar sizes > 3/8"

BEAM SECTIONS

Number of prismatic sections = 3

Sec	Name	Shape	b (cm)	h (cm)	tw (cm)	tf (cm)	P1 (cm)	P2 (cm)	A (cm2)	I2 (cm4)	I3 (cm4)	J (cm4)
1	VG-25X30	Rectang	25.00	30.00	-	-	-	-	750.0	56250	39062	74219
2	VG-20X30	Rectang	20.00	30.00	-	-	-	-	600.0	45000	20000	46400
3	VC-25X25	Rectang	25.00	25.00	-	-	-	-	625.0	32552	32552	48177

Design Results - Beams (DMO)

BEAM: 3(A-B) FLOOR: 1

Length: L = 3.48 m a = 0.13 m Section: b = 25.0 cm Sec: VC-25X25
Lu = 3.21 m c = 0.15 m h = 25.0 cm Mat: RConcrete1

X, m:	0.13	0.45	0.77	1.09	1.41	1.73	2.05	2.37	2.69	3.01	3.33
Mu(-), ton-m:	-0.18	-0.09	-0.02	0.00	0.00	0.00	0.00	0.00	-0.02	-0.09	-0.18
Mu(+), ton-m:	0.00	0.00	0.01	0.04	0.08	0.09	0.08	0.04	0.01	0.00	0.00
As(-), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
As(+), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
Vu, ton:	0.30	0.27	0.20	0.13	0.07	0.00	0.07	0.13	0.20	0.27	0.30
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	4.00	4.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	4.00	4.00

DESIGN

3-A 14 #3 @ 4 22 #3 @ 9 14 #3 @ 4 3-B

BEAM: 3(B-C) FLOOR: 1

Length: L = 3.48 m a = 0.15 m Section: b = 25.0 cm Sec: VC-25X25
Lu = 3.21 m c = 0.13 m h = 25.0 cm Mat: RConcrete1

X, m:	0.15	0.47	0.79	1.11	1.43	1.75	2.07	2.39	2.71	3.03	3.36
Mu(-), ton-m:	-0.18	-0.09	-0.02	0.00	0.00	0.00	0.00	0.00	-0.02	-0.09	-0.18
Mu(+), ton-m:	0.00	0.00	0.01	0.04	0.08	0.09	0.08	0.04	0.01	0.00	0.00
As(-), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
As(+), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
Vu, ton:	0.30	0.27	0.20	0.13	0.07	0.00	0.07	0.13	0.20	0.27	0.30
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	4.00	4.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	4.00	4.00

DESIGN

3-B 14 #3 @ 4 22 #3 @ 9 14 #3 @ 4 3-C

BEAM: 2(A-B) FLOOR: 1

Length: L = 3.48 m a = 0.13 m Section: b = 25.0 cm Sec: VC-25X25
Lu = 3.21 m c = 0.15 m h = 25.0 cm Mat: RConcrete1

X, m:	0.13	0.45	0.77	1.09	1.41	1.73	2.05	2.37	2.69	3.01	3.33
Mu(-), ton-m:	-0.18	-0.09	-0.02	0.00	0.00	0.00	0.00	0.00	-0.02	-0.09	-0.18
Mu(+), ton-m:	0.00	0.00	0.01	0.04	0.08	0.09	0.08	0.04	0.01	0.00	0.00
As(-), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
As(+), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
Vu, ton:	0.30	0.27	0.20	0.13	0.07	0.00	0.07	0.13	0.20	0.27	0.30
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	4.00	4.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	4.00	4.00

DESIGN

2-A 14 #3 @ 4 22 #3 @ 9 14 #3 @ 4 2-B

BEAM: 2(B-C) FLOOR: 1

Length: L = 3.48 m a = 0.15 m Section: b = 25.0 cm Sec: VC-25X25
Lu = 3.21 m c = 0.13 m h = 25.0 cm Mat: RConcrete1

X, m:	0.15	0.47	0.79	1.11	1.43	1.75	2.07	2.39	2.71	3.03	3.36
Mu(-), ton-m:	-0.18	-0.09	-0.02	0.00	0.00	0.00	0.00	0.00	-0.02	-0.09	-0.18
Mu(+), ton-m:	0.00	0.00	0.01	0.04	0.08	0.09	0.08	0.04	0.01	0.00	0.00
As(-), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
As(+), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
Vu, ton:	0.30	0.27	0.20	0.13	0.07	0.00	0.07	0.13	0.20	0.27	0.30
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	4.00	4.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	4.00	4.00

DESIGN

2-B 14 #3 @ 4 22 #3 @ 9 14 #3 @ 4 2-C

BEAM: 1(A-B) FLOOR: 1

Length: L = 3.48 m a = 0.13 m Section: b = 25.0 cm Sec: VC-25X25
Lu = 3.21 m c = 0.15 m h = 25.0 cm Mat: RConcrete1

X, m:	0.13	0.45	0.77	1.09	1.41	1.73	2.05	2.37	2.69	3.01	3.33
Mu(-), ton-m:	-0.18	-0.09	-0.02	0.00	0.00	0.00	0.00	0.00	-0.02	-0.09	-0.18
Mu(+), ton-m:	0.00	0.00	0.01	0.04	0.08	0.09	0.08	0.04	0.01	0.00	0.00
As(-), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
As(+), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
Vu, ton:	0.30	0.27	0.20	0.13	0.07	0.00	0.07	0.13	0.20	0.27	0.30
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	4.00	4.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	4.00	4.00

DESIGN

1-A 14 #3 @ 4 22 #3 @ 9 14 #3 @ 4 1-B

BEAM: 1(B-C) FLOOR: 1

Length: L = 3.48 m a = 0.15 m Section: b = 25.0 cm Sec: VC-25X25
Lu = 3.21 m c = 0.13 m h = 25.0 cm Mat: RConcrete1

X, m:	0.15	0.47	0.79	1.11	1.43	1.75	2.07	2.39	2.71	3.03	3.36
Mu(-), ton-m:	-0.18	-0.09	-0.02	0.00	0.00	0.00	0.00	0.00	-0.02	-0.09	-0.18
Mu(+), ton-m:	0.00	0.00	0.01	0.04	0.08	0.09	0.08	0.04	0.01	0.00	0.00
As(-), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
As(+), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
Vu, ton:	0.30	0.27	0.20	0.13	0.07	0.00	0.07	0.13	0.20	0.27	0.30
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	4.00	4.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	4.00	4.00

DESIGN

1-B 14 #3 @ 4 22 #3 @ 9 14 #3 @ 4 1-C

BEAM: 3(A-B) FLOOR: 2

Length: L = 3.48 m a = 0.13 m Section: b = 25.0 cm Sec: VG-25X30
Lu = 3.21 m c = 0.15 m h = 30.0 cm Mat: RConcrete1

X, m:	0.13	0.45	0.77	1.09	1.41	1.73	2.05	2.37	2.69	3.01	3.33
Mu(-), ton-m:	-1.04	-0.66	-0.37	-0.30	-0.30	-0.30	-0.30	-0.30	-0.58	-1.02	-1.52
Mu(+), ton-m:	0.72	0.73	0.74	0.69	0.58	0.44	0.41	0.41	0.39	0.36	0.51
As(-), cm2:	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
As(+), cm2:	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
Vu, ton:	1.47	1.42	1.21	1.01	0.81	0.96	1.16	1.37	1.57	1.77	1.83
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	6.00	6.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	6.00	6.00

DESIGN

3-A 11 #3 @ 6 15 #3 @ 12 11 #3 @ 6 3-B

BEAM: 3(B-C) FLOOR: 2

Length: L = 3.48 m a = 0.15 m Section: b = 25.0 cm Sec: VG-25X30
Lu = 3.21 m c = 0.13 m h = 30.0 cm Mat: RConcrete1

X, m:	0.15	0.47	0.79	1.11	1.43	1.75	2.07	2.39	2.71	3.03	3.36
Mu(-), ton-m:	-1.52	-1.02	-0.58	-0.30	-0.30	-0.30	-0.30	-0.30	-0.37	-0.66	-1.04
Mu(+), ton-m:	0.51	0.36	0.39	0.41	0.41	0.44	0.58	0.69	0.74	0.73	0.72
As(-), cm2:	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
As(+), cm2:	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
Vu, ton:	1.83	1.77	1.57	1.37	1.16	0.96	0.81	1.01	1.21	1.42	1.47
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	6.00	6.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	6.00	6.00

DESIGN

3-B 11 #3 @ 6 15 #3 @ 12 11 #3 @ 6 3-C

BEAM: 2(A-B) FLOOR: 2

Length: L = 3.48 m a = 0.13 m Section: b = 25.0 cm Sec: VG-25X30
Lu = 3.21 m c = 0.15 m h = 30.0 cm Mat: RConcrete1

X, m:	0.13	0.45	0.77	1.09	1.41	1.73	2.05	2.37	2.69	3.01	3.33
Mu(-), ton-m:	-1.20	-0.64	-0.42	-0.42	-0.42	-0.42	-0.42	-0.42	-0.66	-1.33	-2.12
Mu(+), ton-m:	0.62	0.78	0.93	0.98	0.91	0.85	0.66	0.52	0.42	0.42	0.71
As(-), cm2:	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.46
As(+), cm2:	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
Vu, ton:	2.26	2.16	1.78	1.39	1.02	1.28	1.66	2.05	2.43	2.81	2.91
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	6.00	6.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	6.00	6.00

DESIGN

2-A 11 #3 @ 6 15 #3 @ 12 11 #3 @ 6 2-B

BEAM: 2(B-C) FLOOR: 2

Length: L = 3.48 m a = 0.15 m Section: b = 25.0 cm Sec: VG-25X30
Lu = 3.21 m c = 0.13 m h = 30.0 cm Mat: RConcrete1

X, m:	0.15	0.47	0.79	1.11	1.43	1.75	2.07	2.39	2.71	3.03	3.36
Mu(-), ton-m:	-2.12	-1.33	-0.66	-0.42	-0.42	-0.42	-0.42	-0.42	-0.42	-0.64	-1.20
Mu(+), ton-m:	0.71	0.42	0.42	0.52	0.66	0.85	0.91	0.98	0.93	0.78	0.62
As(-), cm2:	2.46	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
As(+), cm2:	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
Vu, ton:	2.91	2.81	2.43	2.05	1.66	1.28	1.02	1.39	1.78	2.16	2.26
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	6.00	6.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	6.00	6.00

DESIGN

2-B 11 #3 @ 6 15 #3 @ 12 11 #3 @ 6 2-C

BEAM: 1'(A-B) FLOOR: 2

Length: L = 3.48 m, Lu = 3.23 m, a = 0.13 m, c = 0.13 m | Section: b = 20.0 cm, h = 30.0 cm | Sec: VG-20X30 | Mat: RConcrete1

X, m:	0.13	0.45	0.77	1.09	1.42	1.74	2.06	2.39	2.71	3.03	3.36
Mu(-), ton-m:	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.52	-1.38
Mu(+), ton-m:	0.28	0.71	1.14	1.41	1.52	1.46	1.22	0.81	0.28	0.28	0.46
As(-), cm2:	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
As(+), cm2:	1.61	1.61	1.61	1.62	1.75	1.68	1.61	1.61	1.61	1.61	1.61
Vu, ton:	1.71	1.58	1.11	0.69	0.31	0.67	1.09	1.51	2.00	2.51	2.64
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	6.00	6.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	6.00	6.00

DESIGN: 1'-A — 11 #3 @ 6 16 #3 @ 12 11 #3 @ 6 — 1'-B

BEAM: 1'(B-C) FLOOR: 2

Length: L = 3.48 m, Lu = 3.23 m, a = 0.13 m, c = 0.13 m | Section: b = 20.0 cm, h = 30.0 cm | Sec: VG-20X30 | Mat: RConcrete1

X, m:	0.13	0.45	0.77	1.09	1.42	1.74	2.06	2.39	2.71	3.03	3.36
Mu(-), ton-m:	-1.38	-0.52	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28	-0.28
Mu(+), ton-m:	0.46	0.28	0.28	0.81	1.22	1.46	1.52	1.41	1.14	0.71	0.28
As(-), cm2:	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61
As(+), cm2:	1.61	1.61	1.61	1.61	1.61	1.68	1.75	1.62	1.61	1.61	1.61
Vu, ton:	2.64	2.51	2.00	1.51	1.09	0.67	0.31	0.69	1.11	1.58	1.71
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	6.00	6.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	6.00	6.00

DESIGN: 1'-B — 11 #3 @ 6 16 #3 @ 12 11 #3 @ 6 — 1'-C

BEAM: 1(A-B) FLOOR: 2

Length: L = 3.48 m, Lu = 3.21 m, a = 0.13 m, c = 0.15 m | Section: b = 25.0 cm, h = 30.0 cm | Sec: VG-25X30 | Mat: RConcrete1

X, m:	0.13	0.45	0.77	1.09	1.41	1.73	2.05	2.37	2.69	3.01	3.33
Mu(-), ton-m:	-1.27	-0.81	-0.46	-0.37	-0.37	-0.37	-0.37	-0.37	-0.71	-1.24	-1.85
Mu(+), ton-m:	0.91	0.92	0.92	0.85	0.70	0.54	0.51	0.51	0.50	0.47	0.62
As(-), cm2:	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.13
As(+), cm2:	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
Vu, ton:	1.78	1.72	1.47	1.23	1.00	1.17	1.42	1.66	1.91	2.15	2.21
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	6.00	6.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	6.00	6.00

DESIGN: 1-A — 11 #3 @ 6 15 #3 @ 12 11 #3 @ 6 — 1-B

BEAM: 1(B-C) FLOOR: 2

Length: L = 3.48 m, Lu = 3.21 m, a = 0.15 m, c = 0.13 m | Section: b = 25.0 cm, h = 30.0 cm | Sec: VG-25X30 | Mat: RConcrete1

X, m:	0.15	0.47	0.79	1.11	1.43	1.75	2.07	2.39	2.71	3.03	3.36
Mu(-), ton-m:	-1.85	-1.24	-0.71	-0.37	-0.37	-0.37	-0.37	-0.37	-0.46	-0.81	-1.27
Mu(+), ton-m:	0.62	0.47	0.50	0.51	0.51	0.54	0.70	0.85	0.92	0.92	0.91
As(-), cm2:	2.13	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
As(+), cm2:	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
Vu, ton:	2.21	2.15	1.91	1.66	1.42	1.17	1.00	1.23	1.47	1.72	1.78
Tu, ton-m:	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	6.00	6.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	6.00	6.00

DESIGN: 1-B — 11 #3 @ 6 15 #3 @ 12 11 #3 @ 6 — 1-C

BEAM: A(3-2) FLOOR: 1

Length: L = 2.15 m a = 0.13 m Section: b = 25.0 cm Sec: VC-25X25
Lu = 1.90 m c = 0.13 m h = 25.0 cm Mat: RConcrete1

X, m:	0.13	0.32	0.51	0.70	0.89	1.08	1.27	1.46	1.65	1.84	2.03
Mu(-), ton-m:	-0.06	-0.03	-0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.03	-0.06
Mu(+), ton-m:	0.00	0.00	0.00	0.01	0.03	0.03	0.03	0.01	0.00	0.00	0.00
As(-), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
As(+), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
Vu, ton:	0.16	0.16	0.12	0.08	0.04	0.00	0.04	0.08	0.12	0.16	0.16
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	4.00	4.00	4.00	9.00	9.00	9.00	9.00	9.00	4.00	4.00	4.00

DESIGN

3-A 46 #3 @ 4 2-A

BEAM: A(2-1) FLOOR: 1

Length: L = 4.60 m a = 0.13 m Section: b = 25.0 cm Sec: VC-25X25
Lu = 4.35 m c = 0.13 m h = 25.0 cm Mat: RConcrete1

X, m:	0.13	0.56	1.00	1.43	1.87	2.30	2.74	3.17	3.61	4.04	4.48
Mu(-), ton-m:	-0.27	-0.12	-0.02	0.00	0.00	0.00	0.00	0.00	-0.02	-0.12	-0.27
Mu(+), ton-m:	0.00	0.00	0.01	0.06	0.11	0.12	0.11	0.06	0.01	0.00	0.00
As(-), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
As(+), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
Vu, ton:	0.34	0.29	0.21	0.13	0.06	0.00	0.06	0.13	0.21	0.29	0.34
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	4.00	4.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	4.00	4.00

DESIGN

2-A 14 #3 @ 4 35 #3 @ 9 14 #3 @ 4 1-A

BEAM: B(3-2) FLOOR: 1

Length: L = 2.15 m a = 0.13 m Section: b = 25.0 cm Sec: VC-25X25
Lu = 1.90 m c = 0.13 m h = 25.0 cm Mat: RConcrete1

X, m:	0.13	0.32	0.51	0.70	0.89	1.08	1.27	1.46	1.65	1.84	2.03
Mu(-), ton-m:	-0.06	-0.03	-0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.03	-0.06
Mu(+), ton-m:	0.00	0.00	0.00	0.01	0.03	0.03	0.03	0.01	0.00	0.00	0.00
As(-), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
As(+), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
Vu, ton:	0.16	0.16	0.12	0.08	0.04	0.00	0.04	0.08	0.12	0.16	0.16
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	4.00	4.00	4.00	9.00	9.00	9.00	9.00	9.00	4.00	4.00	4.00

DESIGN

3-B 46 #3 @ 4 2-B

BEAM: B(2-1) FLOOR: 1

Length: L = 4.60 m a = 0.13 m Section: b = 25.0 cm Sec: VC-25X25
Lu = 4.35 m c = 0.13 m h = 25.0 cm Mat: RConcrete1

X, m:	0.13	0.56	1.00	1.43	1.87	2.30	2.74	3.17	3.61	4.04	4.48
Mu(-), ton-m:	-0.27	-0.12	-0.02	0.00	0.00	0.00	0.00	0.00	-0.02	-0.12	-0.27
Mu(+), ton-m:	0.00	0.00	0.01	0.06	0.11	0.12	0.11	0.06	0.01	0.00	0.00
As(-), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
As(+), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
Vu, ton:	0.34	0.29	0.21	0.13	0.06	0.00	0.06	0.13	0.21	0.29	0.34
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	4.00	4.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	4.00	4.00

DESIGN

2-B 14 #3 @ 4 35 #3 @ 9 14 #3 @ 4 1-B

BEAM: C(3-2) FLOOR: 1

Length: L = 2.15 m a = 0.13 m Section: b = 25.0 cm Sec: VC-25X25
Lu = 1.90 m c = 0.13 m h = 25.0 cm Mat: RConcrete1

X, m:	0.13	0.32	0.51	0.70	0.89	1.08	1.27	1.46	1.65	1.84	2.03
Mu(-), ton-m:	-0.06	-0.03	-0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.03	-0.06
Mu(+), ton-m:	0.00	0.00	0.00	0.01	0.03	0.03	0.03	0.01	0.00	0.00	0.00
As(-), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
As(+), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
Vu, ton:	0.16	0.16	0.12	0.08	0.04	0.00	0.04	0.08	0.12	0.16	0.16
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	4.00	4.00	4.00	9.00	9.00	9.00	9.00	9.00	4.00	4.00	4.00

DESIGN

3-C 46 #3 @ 4 2-C

BEAM: C(2-1) FLOOR: 1

Length: L = 4.60 m a = 0.13 m Section: b = 25.0 cm Sec: VC-25X25
Lu = 4.35 m c = 0.13 m h = 25.0 cm Mat: RConcrete1

X, m:	0.13	0.56	1.00	1.43	1.87	2.30	2.74	3.17	3.61	4.04	4.48
Mu(-), ton-m:	-0.27	-0.12	-0.02	0.00	0.00	0.00	0.00	0.00	-0.02	-0.12	-0.27
Mu(+), ton-m:	0.00	0.00	0.01	0.06	0.11	0.12	0.11	0.06	0.01	0.00	0.00
As(-), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
As(+), cm2:	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
Vu, ton:	0.34	0.29	0.21	0.13	0.06	0.00	0.06	0.13	0.21	0.29	0.34
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	4.00	4.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	4.00	4.00

DESIGN

2-C 14 #3 @ 4 35 #3 @ 9 14 #3 @ 4 1-C

BEAM: A(3-2) FLOOR: 2

Length: L = 2.15 m a = 0.13 m Section: b = 25.0 cm Sec: VG-25X30
Lu = 1.90 m c = 0.13 m h = 30.0 cm Mat: RConcrete1

X, m:	0.13	0.32	0.51	0.70	0.89	1.08	1.27	1.46	1.65	1.84	2.03
Mu(-), ton-m:	-1.30	-1.09	-0.90	-0.74	-0.59	-0.47	-0.53	-0.81	-1.16	-1.53	-1.93
Mu(+), ton-m:	1.10	0.90	0.69	0.46	0.39	0.39	0.39	0.39	0.39	0.39	0.64
As(-), cm2:	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.23
As(+), cm2:	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
Vu, ton:	1.90	1.90	1.99	2.10	2.22	2.33	2.44	2.56	2.67	2.76	2.76
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	6.00	6.00	6.00	6.00	12.00	12.00	12.00	6.00	6.00	6.00	6.00

DESIGN

3-A 31 #3 @ 6 2-A

BEAM: A(2-1) FLOOR: 2

Length: L = 4.60 m a = 0.13 m Section: b = 25.0 cm Sec: VG-25X30
Lu = 4.35 m c = 0.13 m h = 30.0 cm Mat: RConcrete1

X, m:	0.13	0.56	1.00	1.43	1.87	2.30	2.74	3.17	3.61	4.04	4.48
Mu(-), ton-m:	-2.42	-1.37	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.87	-1.69
Mu(+), ton-m:	0.81	0.48	0.48	0.79	1.55	2.23	1.81	1.49	1.12	0.72	0.56
As(-), cm2:	2.83	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
As(+), cm2:	2.01	2.01	2.01	2.01	2.01	2.59	2.07	2.01	2.01	2.01	2.01
Vu, ton:	2.99	2.90	2.68	2.47	2.25	2.03	1.72	1.94	2.15	2.37	2.47
Tu, ton-m:	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	6.00	6.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	6.00	6.00

DESIGN

2-A 11 #3 @ 6 25 #3 @ 12 11 #3 @ 6 1-A

BEAM: B(3-2) FLOOR: 2

Length: L = 2.15 m a = 0.13 m Section: b = 25.0 cm Sec: VG-25X30
Lu = 1.90 m c = 0.13 m h = 30.0 cm Mat: RConcrete1

X, m:	0.13	0.32	0.51	0.70	0.89	1.08	1.27	1.46	1.65	1.84	2.03
Mu(-), ton-m:	-1.20	-1.05	-0.94	-0.87	-0.84	-0.87	-1.19	-1.56	-2.06	-2.63	-3.24
Mu(+), ton-m:	1.22	0.96	0.68	0.65	0.65	0.65	0.65	0.65	0.65	0.65	1.08
As(-), cm2:	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.38	3.08	3.86
As(+), cm2:	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
Vu, ton:	3.28	3.28	3.42	3.61	3.80	3.99	4.18	4.37	4.57	4.71	4.71
Tu, ton-m:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	6.00	6.00	6.00	6.00	12.00	12.00	12.00	6.00	6.00	6.00	6.00

DESIGN

3-B 31 #3 @ 6 2-B

BEAM: B(2-1) FLOOR: 2

Length: L = 4.60 m a = 0.13 m Section: b = 25.0 cm Sec: VG-25X30
Lu = 4.35 m c = 0.13 m h = 30.0 cm Mat: RConcrete1

X, m:	0.13	0.56	1.00	1.43	1.87	2.30	2.74	3.17	3.61	4.04	4.48
Mu(-), ton-m:	-4.98	-2.62	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.43	-3.10
Mu(+), ton-m:	1.66	1.00	1.00	1.71	3.60	5.31	4.03	2.58	1.36	1.00	1.03
As(-), cm2:	6.26	3.07	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	3.69
As(+), cm2:	2.01	2.01	2.01	2.01	4.33	6.74	4.92	3.03	2.01	2.01	2.01
Vu, ton:	6.34	6.19	5.85	5.50	5.16	4.82	4.27	4.61	4.95	5.30	5.45
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	6.00	6.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	6.00	6.00

DESIGN

2-B 11 #3 @ 6 25 #3 @ 12 11 #3 @ 6 1-B

BEAM: C(3-2) FLOOR: 2

Length: L = 2.15 m a = 0.13 m Section: b = 25.0 cm Sec: VG-25X30
Lu = 1.90 m c = 0.13 m h = 30.0 cm Mat: RConcrete1

X, m:	0.13	0.32	0.51	0.70	0.89	1.08	1.27	1.46	1.65	1.84	2.03
Mu(-), ton-m:	-1.30	-1.09	-0.90	-0.74	-0.59	-0.47	-0.53	-0.81	-1.16	-1.53	-1.93
Mu(+), ton-m:	1.10	0.90	0.69	0.46	0.39	0.39	0.39	0.39	0.39	0.39	0.64
As(-), cm2:	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.23
As(+), cm2:	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
Vu, ton:	1.90	1.90	1.99	2.10	2.22	2.33	2.44	2.56	2.67	2.76	2.76
Tu, ton-m:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	6.00	6.00	6.00	6.00	12.00	12.00	12.00	6.00	6.00	6.00	6.00

DESIGN

3-C 31 #3 @ 6 2-C

BEAM: C(2-1) FLOOR: 2

Length: L = 4.60 m a = 0.13 m Section: b = 25.0 cm Sec: VG-25X30
Lu = 4.35 m c = 0.13 m h = 30.0 cm Mat: RConcrete1

X, m:	0.13	0.56	1.00	1.43	1.87	2.30	2.74	3.17	3.61	4.04	4.48
Mu(-), ton-m:	-2.42	-1.37	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.48	-0.87	-1.69
Mu(+), ton-m:	0.81	0.48	0.48	0.79	1.55	2.23	1.81	1.49	1.12	0.72	0.56
As(-), cm2:	2.83	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01	2.01
As(+), cm2:	2.01	2.01	2.01	2.01	2.01	2.59	2.07	2.01	2.01	2.01	2.01
Vu, ton:	2.99	2.90	2.68	2.47	2.25	2.03	1.72	1.94	2.15	2.37	2.47
Tu, ton-m:	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Stirrup:	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3	#3
Spacing, cm:	6.00	6.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	6.00	6.00

DESIGN

2-C 11 #3 @ 6 25 #3 @ 12 11 #3 @ 6 1-C